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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/583,263	05/31/2000	Chicheng Wang	1225.003US1	2811
24201	7590 08/13/2003			
FULWIDER PATTON LEE & UTECHT, LLP			EXAMINER	
HOWARD HUGHES CENTER 6060 CENTER DRIVE			WOO, JULIAN W	
TENTH FLO	·· · · · · · · · · · · · · · · · · · ·			
LOS ANGELES, CA 90045			ART UNIT	PAPER NUMBER
	,		3731	
			DATE MAILED: 08/13/2003	14
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
			WANG, CHICHENG	()			
Office Action Summary		09/583,263 Examiner	Art Unit				
	,	Julian W. Woo	3731				
The MAILING DATE of this	s communication a		et with the correspondence address -				
Period for Reply	•	•	·				
A SHORTENED STATUTORY F THE MAILING DATE OF THIS C - Extensions of time may be available under after SIX (6) MONTHS from the mailing dat - If the period for reply specified above is less - If NO period for reply is specified above, the - Failure to reply within the set or extended p - Any reply received by the Office later than t earned patent term adjustment. See 37 CF  Status	COMMUNICATION the provisions of 37 CFR 1 e of this communication. s than thirty (30) days, a re e maximum statutory perioderiod for reply will, by statu hree months after the maili	136(a). In no event, however, mapping within the statutory minimum of will apply and will expire SIX (6) the, cause the application to becon	ay a reply be timely filed  If thirty (30) days will be considered timely.  MONTHS from the mailing date of this communicate ABANDONED (35 U.S.C. § 133).	ition.			
1) Responsive to communic	ation(s) filed on 10	) June 2003 .					
2a) ☐ This action is FINAL.	2b)⊠ T	his action is non-final.					
closed in accordance with			matters, prosecution as to the merit C.D. 11, 453 O.G. 213.	ls is			
Disposition of Claims							
4)	•						
4a) Of the above claim(s) _		awn from consideration.					
· <u> </u>	Claim(s) <u>22</u> is/are allowed.						
	Claim(s) <u>1,8-12 and 15-21</u> is/are rejected.						
· <u> </u>	Claim(s) <u>2-7,13 and 14</u> is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Application Papers	it to restriction and	or election requirement					
9)☐ The specification is objecte	d to by the Examir	ner.					
10) The drawing(s) filed on	•	_	by the Examiner.				
		•	beyance. See 37 CFR 1.85(a).				
11)☐ The proposed drawing corr	ection filed on	is: a)∏ approved b)[	disapproved by the Examiner.				
If approved, corrected draw	ings are required in r	reply to this Office action.					
12)☐ The oath or declaration is o	bjected to by the E	Examiner.					
Priority under 35 U.S.C. §§ 119 an	d 120						
13) Acknowledgment is made	of a claim for foreig	gn priority under 35 U.S	.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐	None of:						
1. Certified copies of the	ne priority docume	nts have been received.					
2. Certified copies of the	2. Certified copies of the priority documents have been received in Application No						
	the International E	Bureau (PCT Rule 17.2(a					
		·	S.C. § 119(e) (to a provisional applic	ation).			
a) ☐ The translation of the 15)☐ Acknowledgment is made o		* *					
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawin</li> <li>Information Disclosure Statement(s) (F</li> </ol>		5) 🔲 Notic	riew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) :				

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## **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 10, 2003 has been entered.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 8,11, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Myers et al. (5,700,285). Myers et al. disclose, in figures 1 and 4-8 and in col. 2, lines 34-67 and col. 5, line 34 to col. 6, line 12, a stent and a system for retaining a polymeric, PTFE film or sheet or expandable sleeve (20), where the stent includes a structural support comprising a patterned surface (e.g., with apertures or braiding) and a first unexpanded configuration and a second expanded configuration, and where the film is retained by the stent surface (see and is wrapped around the stent such that first and second layers are formed (e.g., 45 or 49).

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# Claim R jections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myers et al. in view of Tartaglia et al. (5,637,113). Myers et al. disclose the invention substantially as claimed, but do not disclose a polymeric film with one or more drugs or apertures. Tartaglia et al. teach, in col. 4, lines 25 to 46, a polymeric film loaded with drugs and having apertures. It would have been obvious to one having ordinary skill in the art at the time the invention was made, in view of Tartaglia et al., to load drugs and define apertures in the polymeric film of Myers et al. Such modifications would allow, for example, the loading of a drug that is anti-thrombogenic, while apertures can promote endothelialization when the stent is deployed in vasculature.
- 6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaster (4,441,215) in view of Myers et al. Kaster discloses the invention substantially as

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claimed. Kaster discloses, in col. 6, line 25 to col. 7, line 44, a method for adhering a polymeric sheet (32) to a stent structural member (10) having a raised, textured design (a herringbone braid). However, Kaster does not disclose wrapping the sheet around the structural member such that a first layer and an overlapping second layer are formed. Myers et al. teach wrapping a polymeric sheet around a structural member such that a first layer and an overlapping second layer are formed. It would have been obvious to one having ordinary skill in the art at the time the invention was made, in view of Myers et al., to modify the method of Kaster, so that a polymeric sheet is wrapped around the structural member such that a first layer and an overlapping second layer are formed. Such a modification provides a convenient and effective means for affixing a polymeric film to a structural member.

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- 7. Claims 16, 17, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myers et al. in view of Pinchuk (5,053,048). Myers et al. disclose the invention substantially as claimed. However, Myers et al. do not disclose an expandable structural member with an outer surface that is roughened or textured. Pinchuk teaches, in col. 3, lines 1-22, structural members with roughened or textured surfaces. It would have been obvious to one having ordinary skill in the art at the time the invention was made, in view of Pinchuk, to roughen or texturize the outer surface of the structural member of Myers et al. Such a modification would improve of adhesion of the polymeric sheet or sleeve to the structural member.
- 8. Claims 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myers et al. in view of Pinchuk as applied to claims 16 and 19 above, and further in

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view of Tartaglia et al. Myers et al. in view of Pinchuk disclose the invention substantially as claimed, but do not disclose a polymeric sleeve or sheet containing drugs. Tartaglia et al. teach, in col. 4, lines 25 to 46, a polymeric sleeve or sheet loaded with drugs. It would have been obvious to one having ordinary skill in the art at the time the invention was made, in view of Tartaglia et al., to load drugs in the polymeric sleeve or sheet of Myers et al. Such a modification would allow, for example, the loading of a drug that is anti-thrombogenic onto the stent assembly and thus improve the stenting performance in vasculature.

## Allowable Subject Matter

- 9. Claim 22 is allowed.
- 10. The following is an examiner's statement of reasons for allowance: None of the prior art of record, alone or in combination discloses, inter alia, a structural support of a stent having an outer surface with a pattern of raised squares.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

11. Claims 2-7, 13, and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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12. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art of record, alone or in combination, discloses a stent and a polymeric film or sheet or tube wrapped around the stent such that a first layer and an overlapping second layer are formed, where the stent comprises an outer surface having raised triangles, spikes, and/or raised squares.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

# Response to Amendment

13. Applicant's arguments with respect to claims 1-21 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ham (6,334,868) teaches a perforated stent cover.

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15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian W. Woo whose telephone number is (703) 308-0421. The examiner can normally be reached Mon.-Fri., 7:00 AM to 3:00 PM Eastern Time, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Milano can be reached at (703) 308-2496.

General inquiries relating to the status of this application should be directed to the Group receptionist at (703) 308-0858. The official FAX number is (703) 872-9302.

Julian W. Woo Primary Examiner

Julian M. Moo

August 7, 2003